

# union

DPM 948



## MATERIAL HEALTH AND SAFETY BULLETIN

UCD No. 231 **UNION CHEMICALS DIVISION / NITROGEN GROUP**

Product Code No. 231

UN No. 2031

MANUFACTURER'S NAME

Union Chemicals Division, Union Oil Company of California

STREET ADDRESS

461 South Boylston

CITY, STATE, AND ZIP CODE

Los Angeles, CA 90017

P. O. Box 60455, 90060

EMERGENCY TELEPHONE NO.

Transportation Emergencies call CHEMTREC (800) 424-9300  
Health Emergencies Call Los Angeles Poison Control Center (24 hours) (213) 664-2121

### PRODUCT:

COMMON NAME: Nitric Acid

GENERIC NAME: Nitric Acid

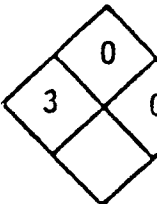
CHEMICAL NAME: Nitric Acid

CHEMICAL FAMILY: Inorganic Acids

DOT PROPER SHIPPING NAME:

### WARNING STATEMENT:

- Do not mix with hydrocarbons, wood or other easily oxidized material.
- Can cause burns.
- Poison--cannot be made nonpoisonous.
- Induce vomiting if swallowed.
- For industrial use only.



### Section I - INGREDIENTS

	TLV*		TI
Nitric Acid	2ppm		

\*Threshold Limit Value

A, OSHA ☒

B, ACGIH ☐

C, See Section III ☐

D, Other ☐

Union Chemicals Division

BOE-C6-0209735

## Section II -- EMERGENCY AND FIRST AID PROCEDURES

**EMERGENCY:** Have a physician call LOS ANGELES POISON CONTROL CENTER (24 hrs.) 213/664-2121

Eye Contact	Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.
Skin Contact	Wash with large quantities of water and seek medical attention if irritation from contact persists.
Inhalation	<p>If breathing difficulties, dizziness, or light-headedness occur when working in areas with high vapor concentration, victim should be removed to fresh air free of vapors.</p> <p>If breathing stops, begin artificial respiration and seek immediate medical attention.</p>
Ingestion	Seek immediate medical advice and/or attention. If swallowed, contact physician immediately. Physician should consult Los Angeles Poison Control Center (24 hours) - (213) 664-2121 regarding vomiting.

## Section III -- PHYSIOLOGICAL EFFECTS AND HEALTH INFORMATION

Eye Effects	This product is an eye irritant. Exposure to liquid or moderate concentrations of vapors may cause burns of the eyes and possibly permanent damage.
Skin Effects	Concentrated vapors may produce immediate, severe and penetrating burning of the skin.
Systemic Effects	<p>Acute Inhalation: Exposure to vapors can result in irritation of the upper respiratory tract (burning of the throat, cough, and shortness of breath), pulmonary edema or pneumonitis.</p> <p>Ingestion: May cause burns of the mouth, throat and stomach, nausea, vomiting, and kidney damage.</p> <p>Chronic: Chronic bronchitis and dental erosion may result from prolonged or repeated exposure to vapors or mists.</p>

### Section IV - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type)	Use self-contained breathing apparatus when vapor concentrations are above the TLV.		
Ventilation	General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time-weighted TLV ranges. If general ventilation proves inadequate to maintain safe vapor concentrations, supplemental local exhaust may be required. Other special precautions such as respiratory masks or environmental containment devices may be required in extreme cases.		
Protective Gloves	The use of impermeable gloves is advised to prevent skin irritation in sensitive individuals.	Eye Protection	Safety glasses, chemical goggles and/or face shields are recommended to safeguard against potential eye contact, irritation or injury.
Other Protective Equipment	Impermeable aprons are advised when working with this product. The availability of eye washes and safety showers in work areas is recommended. The use of long sleeved clothing closed at the neck is advised. Change daily if contaminated.		

### Section V - REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid:  Keep away from reducing agents. Reaction with wood may cause fire.
	Stable		
Incompatibility (Materials to Avoid)	Organic compounds.		
Hazardous Decomposition Products	Oxides of nitrogen.		
Hazardous Polymerization	May Occur	Y	Conditions to Avoid:
	Will Not Occur		

### Section VI - SPILL OR LEAK PROCEDURES

#### HIGHWAY OR RAILWAY SPILLS - CALL CHEMTREC 800/424-9300

Precautions In Case of Release or Spill	Flush spilled material into suitable retaining areas or containers with large quantities of water.
Reportable Quantity	Notify Coast Guard National Response Center; Phone No. 800-424-8802, if Spill is Greater Than _____ lbs (Kilograms)
Waste Disposal Method	Dispose of product in accordance with applicable local, county, state and federal regulations.

## Section VII - STORAGE AND SPECIAL PRECAUTIONS

Handling and Storing Precautions	Use and store this product with adequate ventilation. (See Section 4.)
Other Precautions	Personnel should avoid inhalation of vapors. (See Sections 1, 2, 3, 5, 6.) Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected areas with water. (See Sections 2, 4, 6.)

## Section VIII - FIRE AND EXPLOSION HAZARD DATA

DOT Flammability Classification	Not applicable.	Flash Point Range: <input type="checkbox"/> Below 20° F, <input type="checkbox"/> 20° F - 100° F <input type="checkbox"/> 100° F - 200° F <input type="checkbox"/> Over 200° F <input checked="" type="checkbox"/> None to boiling
Extinguishing Media		
Unusual Fire and Explosion Hazards		
Fire Fighting Procedures	The use of self-contained breathing apparatus is recommended for fire fighters. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes.	

## Section IX - PHYSICAL DATA

Approximate Boiling Range, ° F	186.9° F	Vapor Density: <input checked="" type="checkbox"/> Heavier Than Air <input type="checkbox"/> Lighter
Evaporation Rate: <input type="checkbox"/> Faster Than Ether <input checked="" type="checkbox"/> Slower		Percent Volatile: 100% Solubility in Water: 100%
Specific Gravity: <input type="checkbox"/> Lighter Than Water <input checked="" type="checkbox"/> Heavier	42° Be' 1.4078 38° Be' 1.355	Weight per Gallon: 11.74
Appearance and Odor: Colorless liquid		

## Section X - DOCUMENTARY INFORMATION

Product Code No. 231	Issue Date July 1981	Prepared By P. S. Backlund
Replaces: UCD No. 295	Product Code No. 231	Issued January 1980
Reviewed By: <i>Robert A. Totten</i>	Manager, Loss Prevention	
Reviewed By: <i>Kaiser Beck</i>	Director of Occupational Health & Toxicology	
Reviewed By: <i>Robert A. Totten</i>	Science and Technology Division	

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